EAST Search History

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
S1	13	adam near wolff.in.	US-PGPUB; USPAT	OR	ON	2007/06/12 14:51
S2	16	oliver near steele.in.	US-PGPUB; USPAT	OR	ON	2007/06/12 14:52
S3	16	david near temkin.in.	US-PGPUB; USPAT	OR	ON	2007/06/12 14:54
S4	2	p near withington.in.	US-PGPUB; USPAT	OR	ON	2007/06/12 15:03
S5	8	laszlo.as.	US-PGPUB; USPAT	OR	ON	2007/06/12 15:14
S6	1887	717/151-161.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/06/12 15:08
S7	21	S6 and serializ$5 and run$1time and (virtual adj machine)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/06/12 15:09
S8	20	S7 and (@pd<"20031124" or @ad<"20031124" or @prad<"20031124" or @rlad<"20031124")	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/06/12 15:55
S9	1	"5987256".pn.	US-PGPUB; USPAT	OR	ON	2007/06/12 15:15
S10	1939	serializ$5 near3 object	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/06/12 15:18
S11	384	S10 and run$1time and (virtual adj machine)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/06/12 15:18

S12	293	S11 and compil$5	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/06/12 15:19
S13	198	S12 and reflect$4	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/06/12 15:20
S14	198	S13 and java	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/06/12 15:20
S15	23	S14 and ((decreas$4 or lower$4 or reduc$4) near time)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/06/12 15:29
S16	113	(serializ$5 near3 object) with run$1time	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/06/12 15:29
S17	96	S16 and compil$5	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/06/12 15:29
S18	73	S17 and (@pd<"20031124" or @ad<"20031124" or @prad<"20031124" or @rlad<"20031124")	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/06/12 15:30
S19	2347	serializ$5 near3 (application or object)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/06/12 15:43

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S20	385	S19 and (virtual adj machine) and compil$5	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/06/12 15:43
S21	210	S20 and xml	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/06/12 15:44
S22	8	S21 and (start$1up adj time)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/06/12 15:52
S23	207	S21 and java	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/06/12 15:52
S24	161	S23 and reflect$4	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/06/12 15:53
S25	133	S24 and optimiz$5	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/06/12 15:55
S26	105	S25 and (@pd<"20031124" or @ad<"20031124" or @prad<"20031124" or @rlad<"20031124")	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/06/12 15:55
S27	1431	(decreas$4 or lower$4 or reduc$4) near3 (start$1up adj time)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/06/12 16:08

S28	4	S27 and serializ$5 and compil$5 and (virtual adj machine)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/06/12 16:08
S29	9	("20020099753" | "4912628" | "5966540" | "6421739" | "6718538" | "6760815" | "6854115" | "6934755" | "7093086").PN.	US-PGPUB; USPAT; USOCR	OR	ON	2007/06/12 16:12
S30	50	("20050114871" "6412106" "6880129" "20070061779" "5485600" "6230309" "6434447" "20040172544" "20050160412" "20050193380" "20070094609" "5182806" "5193191" "5201050" "5301327" "5313387" "5325531" "5916308" "5369766" "5412806" "5430836" "5459865" "5519862" "5819090" "5873093" "5901313" "5926631" "5974256" "6067639" "6122641" "6189047" "6282702" "6295643" "6324683" "6408403" "6412021" "6446254" "6483911" "6571389" "6584612" "6637021" "7039904" "7058934" "7155381" "7228533" "20020138659" "20020161996" "20020169591" "20030033443" "20030079052"). pn.	US-PGPUB; USPAT	OR	ON	2007/06/13 11:58
S31	2	"20040044989".pn.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/06/13 16:10
S32	34297	object near3 media	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/06/13 17:27
S33	7	object adj (code or file) near3 (media adj file)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/06/13 17:28

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1 <u>Migration: Optimizing the migration of virtual computers</u>   ◼

Constantine P. Sapuntzakis, Ramesh Chandra, Ben Pfaff, Jim Chow, Monica S. Lam, Mendel Rosenblum
December 2002 **ACM SIGOPS Operating Systems Review**, Volume 36 Issue SI
Publisher: ACM Press

Full text available: 📄 pdf(1.68 MB)   Additional Information: <u>full citation, abstract, references, cited by, index terms</u>

This paper shows how to quickly move the state of a running computer across a network, including the state in its disks, memory, CPU registers, and I/O devices. We call this state a *capsule*. Capsule state is hardware state, so it includes the entire operating system as well as applications and running processes.We have chosen to move *x*86 computer states because *x*86 computers are common, cheap, run the software we use, and have tools for migration. Unfortunately, *x*86 c ...

2 <u>Searching for the sorting record: experiences in tuning NOW-Sort</u>   ◼

Andrea C. Arpaci-Dusseau, Remzi H. Arpaci-Dusseau, David E. Culler, Joseph M. Hellerstein, David A. Patterson
August 1998 **Proceedings of the SIGMETRICS symposium on Parallel and distributed tools SPDT '98**
Publisher: ACM Press

Full text available: 📄 pdf(1.37 MB)   Additional Information: <u>full citation, references, citings, index terms</u>

3 <u>Fast volume rendering using an efficient, scalable parallel formulation of the shear-warp algorithm</u>   ◼

Minesh B. Amin, Ananth Grama, Vineet Singh
December 1995 **Proceedings of the IEEE symposium on Parallel rendering PRS '95**
Publisher: ACM Press

Full text available: 📄 pdf(1.19 MB)   Additional Information: <u>full citation, citings, index terms</u>

Keywords: adaptive load-balancing, performance modeling and analysis, raytracing, scalability, shear-warp algorithm, volume rendering

4 <u>Cautious transaction schedulers with admission control</u>   ◼

Naoki Katoh, Toshihide Ibaraki, Tiko Kameda
June 1985 **ACM Transactions on Database Systems (TODS)**, Volume 10 Issue 2

Publisher: ACM Press

Full text available: ⬛pdf(1.92 MB)   Additional Information: <u>full citation</u>, <u>abstract</u>, <u>references</u>, <u>citings</u>, <u>index terms</u>

We propose a new class of schedulers, called cautious schedulers, that grant an input request if it will not necessitate any rollback in the future. In particular, we investigate cautious WRW-schedulers that output schedules in class WRW only. Class WRW consists of all schedules that are serializable, while preserving the write-read and read-write conflict, and is the largest polynomially recognizable subclass of serializable schedules currently known. It i ...

5 <u>Consistency of transactions and random batch</u>

Rudolf Bayer

December 1986 **ACM Transactions on Database Systems (TODS)**, Volume 11 Issue 4

Publisher: ACM Press

Full text available: ⬛pdf(597.62 KB)   Additional Information: <u>full citation</u>, <u>abstract</u>, <u>references</u>, <u>citings</u>, <u>index terms</u>

A synchronization technique and scheduling strategy is described, which allows us to run a batch process simultaneously with on-line transactions. The batch process and the transactions are serialized in such a way that consistency level 3 is achieved.

6 <u>Libraries and applications: Locality aware dynamic load management for massively multiplayer games</u>

Jin Chen, Baohua Wu, Margaret Delap, Björn Knutsson, Honghui Lu, Cristiana Amza

June 2005 **Proceedings of the tenth ACM SIGPLAN symposium on Principles and practice of parallel programming PPoPP '05**

Publisher: ACM Press

Full text available: ⬛pdf(245.56 KB)   Additional Information: <u>full citation</u>, <u>abstract</u>, <u>references</u>, <u>citings</u>, <u>index terms</u>

Most massively multiplayer game servers employ static partitioning of their game world into distinct mini-worlds that are hosted on separate servers. This limits cross-server interactions between players, and exposes the division of the world to players. We have designed and implemented an architecture in which the partitioning of game regions across servers is transparent to players and interactions are not limited to objects in a single region or server. This allows a finer grain partitioning, ...

Keywords: adaptive, distributed, load balancing, locality aware, massively multiplayer games

7 <u>Representation of function variants for embedded system optimization and synthesis</u>

K. Richter, D. Ziegenbein, R. Ernst, L. Thiele, J. Teich

June 1999 **Proceedings of the 36th ACM/IEEE conference on Design automation DAC '99**

Publisher: ACM Press

Full text available: ⬛pdf(153.80 KB)   Additional Information: <u>full citation</u>, <u>references</u>, <u>citings</u>, <u>index terms</u>

8 <u>Compiler-directed page coloring for multiprocessors</u>

Edouard Bugnion, Jennifer M. Anderson, Todd C. Mowry, Mendel Rosenblum, Monica S. Lam

September 1996 **ACM SIGPLAN Notices , ACM SIGOPS Operating Systems Review , Proceedings of the seventh international conference on Architectural support for programming languages and operating systems ASPLOS-VII**, Volume 31 , 30 Issue 9 , 5

Publisher: ACM Press

Full text available: ⬛pdf(1.37 MB)   Additional Information: <u>full citation</u>, <u>abstract</u>, <u>references</u>, <u>citings</u>, <u>index terms</u>

This paper presents a new technique, *compiler-directed page coloring,* that eliminates

conflict misses in multiprocessor applications. It enables applications to make better use of the increased aggregate cache size available in a multiprocessor. This technique uses the compiler's knowledge of the access patterns of the parallelized applications to direct the operating system's virtual memory page mapping strategy. We demonstrate that this technique can lead to significant performance impr ...

9 TO-Lock: Removing Lock Overhead Using the Owners' Temporal Locality
Takeshi Ogasawara, Hideaki Komatsu, Toshio Nakatani
September 2004 **Proceedings of the 13th International Conference on Parallel Architectures and Compilation Techniques PACT '04**
Publisher: IEEE Computer Society
Full text available: pdf(235.12 KB)   Additional Information: full citation, abstract

The performance of locking is critical, as programming languages with built-in thread support are coming into wide use. Many techniques for optimizing Java monitors have been proposed, based on the observation that the locks are rarely contended for in many applications. However, the problem of the performance degradation in SMP environments caused by necessary serializations of the processors' execution has not been addressed for shared objects. We propose a new algorithm for this problem. It u ...

10 Synchronization and recovery in a client-server storage system
E. Panagos, A. Biliris
August 1997 **The VLDB Journal — The International Journal on Very Large Data Bases**, Volume 6 Issue 3
Publisher: Springer-Verlag New York, Inc.
Full text available: pdf(205.25 KB)   Additional Information: full citation, abstract, citings, index terms

Client-server object-oriented database management systems differ significantly from traditional centralized systems in terms of their architecture and the applications they target. In this paper, we present the client-server architecture of the EOS storage manager and we describe the concurrency control and recovery mechanisms it employs. EOS offers a semi-optimistic locking scheme based on the multi-granularity two-version two-phase locking protocol. Under this scheme, multiple concurrent reade ...

Keywords: Checkpoint, Client-server architecture, Object management, Concurrency control, Locking, Logging, Recovery, Transaction management

11 CARAT: a testbed for the performance evaluation of distributed database systems
Walt Kohler, Bao-Chyuan Jenq
November 1986 **Proceedings of 1986 ACM Fall joint computer conference ACM '86**
Publisher: IEEE Computer Society Press
Full text available: pdf(1.21 MB)   Additional Information: full citation, references, citings, index terms

12 Design and implementation of a distributed virtual machine for networked computers
Emin Gün Sirer, Robert Grimm, Arthur J. Gregory, Brian N. Bershad
December 1999 **ACM SIGOPS Operating Systems Review , Proceedings of the seventeenth ACM symposium on Operating systems principles SOSP '99**, Volume 33 Issue 5
Publisher: ACM Press
Full text available: pdf(1.62 MB)   Additional Information: full citation, abstract, references, citings, index terms

This paper describes the motivation, architecture and performance of a distributed virtual machine (DVM) for networked computers. DVMs rely on a distributed service architecture to meet the manageability, security and uniformity requirements of large, heterogeneous clusters of networked computers. In a DVM, system services, such as verification, security enforcement, compilation and optimization, are factored out of clients and located on powerful network servers. This partitioning of system fun ...

13 A highly available scalable ITV system
M. N. Nelson, M. Linton, S. Owicki
December 1995 **ACM SIGOPS Operating Systems Review , Proceedings of the fifteenth ACM symposium on Operating systems principles SOSP '95**, Volume 29 Issue 5
Publisher: ACM Press
Full text available: pdf(1.64 MB)   Additional Information: full citation, references, citings, index terms

14 Optimizing threaded MPI execution on SMP clusters
Hong Tang, Tao Yang
June 2001 **Proceedings of the 15th international conference on Supercomputing ICS '01**
Publisher: ACM Press
Full text available: pdf(273.33 KB)   Additional Information: full citation, abstract, references, citings, index terms

Our previous work has shown that using threads to execute MPI programs can yield great performance gain on multiprogrammed shared-memory machines. This paper investigates the design and implementation of a thread-based MPI system on SMP clusters. Our study indicates that with a proper design for threaded MPI execution, both point-to-point and collective communication performance can be improved substantially, compared to a process-based MPI implementation in a cluster environment. Our contrib ...

Keywords: MPI, SMP clusters, communication optimization, multi-threading

15 Performance management of mobile agent systems
Omer F. Rana
June 2000 **Proceedings of the fourth international conference on Autonomous agents AGENTS '00**
Publisher: ACM Press
Full text available: pdf(856.21 KB)   Additional Information: full citation, references, citings, index terms

16 Iteration space slicing and its application to communication optimization
William Pugh, Evan Rosser
July 1997 **Proceedings of the 11th international conference on Supercomputing ICS '97**
Publisher: ACM Press
Full text available: pdf(1.67 MB)   Additional Information: full citation, references, citings, index terms

Keywords: communication optimization, latency tolerance, message coalescing, program slicing

17 A tour on the TriGS active database system — architectue and implementation
Gerti Kappel, Stefan Rausch-Schott, Werner Retschitzegger
February 1998 **Proceedings of the 1998 ACM symposium on Applied Computing SAC '98**
Publisher: ACM Press
Full text available: pdf(955.78 KB)   Additional Information: full citation, references, index terms

Keywords: ECA rules, active object-oriented database systems, composite events,

optimization, parallel rule scheduling and processing

18 Partial behavioral reflection: spatial and temporal selection of reification

Éric Tanter, Jacques Noyé, Denis Caromel, Pierre Cointe

October 2003 **ACM SIGPLAN Notices , Proceedings of the 18th annual ACM SIGPLAN conference on Object-oriented programing, systems, languages, and applications OOPSLA '03**, Volume 38 Issue 11

Publisher: ACM Press

Full text available: pdf(261.44 KB)   Additional Information: full citation, abstract, references, citings, index terms

Behavioral reflection is a powerful approach for adapting the behavior of running applications. In this paper we present and motivate *partial behavioral reflection*, an approach to more efficient and flexible behavioral reflection. We expose the *spatial* and *temporal* dimensions of such reflection, and propose a model of partial behavioral reflection based on the notion of *hooksets*. In the context of Java, we describe a reflective architecture offering appropriate interf ...

Keywords: aspect-oriented programming, open systems, reflection

19 Design and implementation of generics for the .NET Common language runtime

Andrew Kennedy, Don Syme

May 2001 **ACM SIGPLAN Notices , Proceedings of the ACM SIGPLAN 2001 conference on Programming language design and implementation PLDI '01**, Volume 36 Issue 5

Publisher: ACM Press

Full text available: pdf(1.25 MB)   Additional Information: full citation, abstract, references, citings, index terms

The Microsoft.NET Common Language Runtime provides a shared type system, intermediate language and dynamic execution environment for the implementation and inter-operation of multiple source languages. In this paper we extend it with direct support for parametric polymorphism (also known as generics), describing the design through examples written in an extended version of the C# programming language, and explaining aspects of implementation by reference to a prototype extension to the runtim ...

20 MPI and Java-MPI: contrasts and comparisons of low-level communication performance

Vladimir Getov, Paul Gray, Vaidy Sunderam

January 1999 **Proceedings of the 1999 ACM/IEEE conference on Supercomputing (CDROM) Supercomputing '99**

Publisher: ACM Press

Full text available: pdf(96.21 KB)   Additional Information: full citation, references, citings, index terms

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